R009-02 B 会場 :11/6 AM1(9)

09:15~09:30

B会場:11/6 AM1 (9:00-10:30)

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Low-energy plasmas observed by MEA and MIA onboard Mio/BepiColombo during its second Mercury flyby

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BepiColombo was launched in October 2018 and is currently en route to Mercury. Although its orbit insertion is planned for December 2025, BepiColombo will acquire new measurements during planetary flybys. During the cruise and planetary flyby phase, the two spacecraft are docked together with Mio being protected behind the MOSIF sun shield. Thus, only partial observations of plasma distribution functions can be obtained by the Mercury Plasma Particle Experiment (MPPE) onboard Mio. However, the Mercury Electron Analyzer (MEA) and the Mercury Ion Analyzer (MIA) of MPPE will provide us with new and unique measurements of low-energy plasma. Combining two instruments, we will present the observations obtained by MEA and MIA onboard Mio/BepiColombo during its second Mercury flyby that happened on the 23rd of June, 2022. In particular, we will focus on the properties of the low-energy plasma populations and inverted-V structures observed during its crossing of Mercury's magnetosphere.